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in the field of optics and interaction of light with matter

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1976 xxiv + 879 pages
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This book is the first in the series and comprises a collection of contributions which give a valuable overall picture of the field. It emphasizes the growing interest in static and dynamic local properties near phase transitions, as they are observed with NMR, EPR, fluorescence and the Mössbauer effect as well as their relations to collective properties. The articles also review the various fields in which these methods are used nowadays, such as structural and magnetic transitions, and liquid crystals.

CONTRIBUTORS: G. Bauer, R. Blinc, F. Borsa, H. R. Borsch, C. Bucci, T. S. Chang, E. Courtens, P. G. de Gennes, M. Droz, F. Ealdner, J. Feder, S. K. Ghosh, G. Guidi, F. Harbus, I. Hatta, P. Heller, R. Kind, I. Kondor, J. Kötzler, L. L. Liu, A. Loesche, P. F. Meier, K. H. Michel, S. Milosević, K. A. Müller, P. M. Richards, A. Rigamonti, M. Schara, T. Schneider, E. Simánek, H. E. Stanley, E. Stoll, N. Szabo, P. Szépfalusy, H. Thomas, Th. von Waldkirch, W. Windsch.

Course LX, 23 July-4 August 1973:

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edited by **D. KASTLER**

1976 xii + 262 pages
Price: US $ 39.95/Dfl. 100.00

This volume contains the lectures presented at the second session of the 1973 Summer School which was devoted to the theory of operator algebras on Hilbert space and to structural field theory, principally in relation to the latter, as these two disciplines are now closely related both conceptually and technically. It is hoped that this volume will be helpful, as were the lectures, to those interested in operator algebras or structural microphysics at a time when rapid progress (particularly in operator algebras) poses a problem of communication.

CONTRIBUTORS: L. Accardi, H. Araki, A. Connes, F. Guerra, R. Herman, N. M. Hugenholz, R. V. Kadison, D. Kastler, W. Krieger, C. Lance, G. K. Pedersen, J. E. Roberts, D. W. Robinson, E. Størmer, M. Takesaki, J. Tomiyama, A. Van Daele, J. Yngvason.

Course LXI, 8-20 July 1974:

Atomic Structure and Mechanical Properties of Metals

edited by **G. CAGLIOTI**

1976 xxiv + 662 pages
Price: US $ 91.95/Dfl. 230.00

The primary purpose of the course was to explore the contribution that physics can make in the interpretation of the physical, chemical and metallurgical parameters of mechanical properties of metals in terms of an atomistic approach from first principles. These proceedings present the state of the art and foreseeable developments of this subject - materials science, a field which requires interdisciplinary contact between physicists, chemists and engineers. As this is still a developing topic, the book is among the first of its kind and as such should constitute a suitable basis for both the materials producers interested in the design production and transformation of new materials with predetermined mechanical properties, and the materials users interested in the optimization of the reliable ultilization of technological materials.

CONTRIBUTORS: G. Angelino, G. Benedek, J. C. Bilello, D. Birchon, S. Boffi, V. Bortolani, G. Caglioti, V. Celli, J. Friedel, A. N. Goland, G. T. Hahn, P. B. Hirsch, H. C. Kim, G. Kostorz, N. H. March, M. Mirabile, H. Nijman, G. Piatti, P. Schiller, A. Schneiders.

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